

# Wisconsin

## Science and Engineering Profile

|                                     | STATE    | U.S.        | Rank |   | STATE   | U.S.      | Rank |
|-------------------------------------|----------|-------------|------|---|---------|-----------|------|
| Doctoral scientists, 1995           | 6,899    | 453,928     | 23   | Total R&D performance, 1995 (millions)                      | \$2,226 | \$177,210 | 22   |
| Doctoral engineers, 1995            | 962      | 86,738      | 26   | Industry R&D, 1995 (millions)                               | \$1,706 | \$130,332 | 18   |
| S&E doctorates awarded, 1996        | 577      | 27,230      | 16   | Academic R&D, 1996 (millions)                               | \$486   | \$22,481  | 14   |
| of which, in life sciences          | 30%      | 25%         |      | of which, in life sciences                                  | 60%     | 56%       |      |
| in engineering                      | 22%      | 23%         |      | in engineering  | 12%     | 16%       |      |
| in social sciences                  | 16%      | 15%         |      | in physical sciences  | 9%      | 10%       |      |
| S&E postdoctorates, 1996            | 683      | 37,019      | 16   | Higher education current-fund expenditures, 1995 (millions) | \$3,768 | \$182,602 | 16   |
| S&E graduate students, 1996         | 8,209    | 430,631     | 18   | Number of SBIR awards, 1990-1997                            | 246     | 31,155    | 25   |
| in doctorate-granting institutions  |          |             |      | Patents issued to state residents, 1997                     | 1,301   | 61,699    | 14   |
| Population, 1997 (000s)             | 5,170    | 271,464     | 18   | Gross state product, 1996 (billions)                        | \$139.2 | \$7,677.4 | 20   |
| Civilian labor force, 1997 (000s)   | 2,928    | 137,564     | 16   | of which, agriculture                                       | 2%      | 2%        |      |
| Personal income per capita, 1997    | \$24,475 | \$25,598    | 23   | manufacturing, mining, construction                         | 32%     | 23%       |      |
| Federal spending                    |          |             |      | transportation, communication, utilities                    | 7%      | 8%        |      |
| Total expenditures, 1997 (millions) | \$20,805 | \$1,405,060 | 24   | wholesale and retail trade                                  | 15%     | 16%       |      |
| R&D obligations, 1996 (millions)    | \$332    | \$66,087    | 28   | finance, insurance, real estate                             | 16%     | 19%       |      |
|                                     |          |             |      | services  | 17%     | 20%       |      |
|                                     |          |             |      | government  | 11%     | 12%       |      |

Rankings and totals are based on data for the 50 states, D.C., and Puerto Rico.

Data on S&E postdoctorates and S&E graduate students include health fields.

## Federal Obligations for Research and Development by Agency and Performer: Fiscal Year 1996

[Thousands of Dollars]

|   | Total   | Federal<br>Intramural | All FFRDCs | Industrial firms | Universities &<br>Colleges | Other<br>nonprofits | State & local<br>government | State rank |
|---|---------|-----------------------|------------|------------------|----------------------------|---------------------|-----------------------------|------------|
| <b>Total, all agencies</b>                  | 331,547 | 37,827                | 0          | 36,170           | 246,991                    | 8,103               | 2,456                       | 28         |
| <b>Department of Agriculture</b>            | 32,770  | 23,730                | 0          | 240              | 8,742                      | 0                   | 58                          | 11         |
| <b>Department of Commerce</b>               | 4,795   | 514                   | 0          | 2,244            | 2,037                      | 0                   | 0                           | 26         |
| <b>Department of Defense</b>                | 25,937  | 303                   | 0          | 15,370           | 10,264                     | 0                   | 0                           | 37         |
| <b>Department of Energy</b>                 | 15,680  | 0                     | 0          | 0                | 15,680                     | 0                   | 0                           | 27         |
| <b>Dept. of Health &amp; Human Services</b> | 162,331 | 0                     | 0          | 2,991            | 149,936                    | 8,032               | 1,372                       | 17         |
| <b>Department of Interior</b>               | 11,880  | 11,579                | 0          | 0                | 219                        | 0                   | 82                          | 14         |
| <b>Department of Transportation</b>         | 3,443   | 1,701                 | 0          | 170              | 628                        | 0                   | 944                         | 28         |
| <b>Environmental Protection Agency</b>      | 869     | 0                     | 0          | 60               | 809                        | 0                   | 0                           | 34         |
| <b>Nat'l Aeronautics &amp; Space Admin.</b> | 27,042  | 0                     | 0          | 15,095           | 11,876                     | 71                  | 0                           | 20         |
| <b>National Science Foundation</b>          | 46,800  | 0                     | 0          | 0                | 46,800                     | 0                   | 0                           | 17         |
| <b>State rank</b>                           | 28      | 35                    | na         | 37               | 14                         | 30                  | 23                          |            |

Federal R&D obligations are as reported by funding agencies.

FFRDC = federally funded research and development center

SBIR = small business innovation research

na = not applicable